STAAR Alternate 2 Spring 2015 and 2016
Grade 4 Mathematics Essence Statements

STAAR Reporting Category 1	STAAR Reporting Category 2	STAAR Reporting Category 3	STAAR Reporting Category 4
Numerical Representations and Relationships: The student will demonstrate an understanding of how to represent and manipulate numbers and expressions.	**Computations and Algebraic Relationships:** The student will demonstrate an understanding of how to perform operations and represent algebraic relationships.	**Geometry and Measurement:** The student will demonstrate an understanding of how to represent and apply geometry and measurement concepts.	**Data Analysis and Personal Financial Literacy:** The student will demonstrate an understanding of how to represent and analyze data and how to describe and apply personal financial concepts.
Knowledge and Skills Statement **(4.2) Number and operations.** The student applies mathematical process standards to represent, compare, and order whole numbers and decimals and understand relationships related to place value. (Readiness and Supporting Standard) **Essence Statement** Uses number relationships to demonstrate an understanding of place value. **Knowledge and Skills Statement** **(4.3) Number and operations.** The student applies mathematical process standards to represent and generate fractions to solve problems. (Readiness and Supporting Standard) **Essence Statement** Models and finds relationships among fractional units.	**Knowledge and Skills Statement** **(4.5) Algebraic reasoning.** The student applies mathematical process standards to develop concepts of expressions and equations. (Readiness Standard) **Essence Statement** Models or solves problems involving whole number relationships.	**Knowledge and Skills Statement** **(4.6) Geometry and measurement.** The student applies mathematical process standards to analyze geometric attributes in order to develop generalizations about their properties. (Readiness and Supporting Standard) **Essence Statement** Identifies one-and two-dimensional geometric figures using attributes. **Knowledge and Skills Statement** **(4.8) Geometry and measurement.** The student applies mathematical process standards to select appropriate customary and metric units, strategies, and tools to solve problems involving measurement. (Readiness and Supporting Standard) **Essence Statement** Solves problems involving length, time, liquid volume, mass/weight, or money.	**Knowledge and Skills Statement** **(4.9) Data analysis.** The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data. (Readiness and Supporting Standard) **Essence Statement** Uses graphs to organize and interpret data. **Knowledge and Skills Statement** **(4.10) Personal financial literacy.** The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security. (Supporting Standard) **Essence Statement** Recognizes how money can be obtained, spent, and used to make a profit.